

WHAT IS CLAIMED IS:

1. A material for providing thermal protection to a surface, said material containing a silicone resin, a silicone catalyst, ground cork, glass ecospheres, and a silicone solvent.
2. A material according to claim 1, wherein said silicone resin is present in an amount from 65.3 wt% to 72.3 wt%.
3. A material according to claim 1, wherein said silicon catalyst is present in an amount from 6.5 wt% to 7.25 wt%.
4. A material according to claim 1, wherein said ground cork is present in an amount from 7.22 wt% to 7.98 wt%.
5. A material according to claim 1, wherein said glass ecospheres are present in an amount from 8.36 wt% to 9.24 wt%.
6. A material according to claim 1, wherein said silicone solvent is present in an amount from 7.6 wt% to 8.4 wt%.
7. A silicone-cork ablative material consisting of from 65.3 wt% to 72.3 wt% silicone resin, from 6.5 wt% to 7.25 wt% silicone catalyst, from 7.22 wt% to 7.98 wt% ground cork, from 8.36 wt% to 9.24 wt% glass ecospheres, and the balance silicone solvent.
8. A silicone-cork ablative material according to claim 7, wherein said silicone solvent is present in an amount from 7.6 wt% to 8.40 wt%.
9. A surface to be subjected to a high temperature environment, which surface has a sprayed coating containing a silicone resin,

a silicone catalyst, ground cork, glass ecospheres, and a silicone solvent.

10. A surface according to claim 9, wherein said silicone resin is present in an amount from 65.3 wt% to 72.3 wt%.

11. A surface according to claim 9, wherein said silicon catalyst is present in an amount from 6.5 wt% to 7.25 wt%.

12. A surface according to claim 9, wherein said ground cork is present in an amount from 7.22 wt% to 7.98 wt%.

13. A surface according to claim 9, wherein said glass ecospheres are present in an amount from 8.36 wt% to 9.24 wt%.

14. A surface according to claim 9, wherein said silicone solvent is present in an amount from 7.6 wt% to 8.4 wt%.

15. A surface according to claim 9, wherein said coating consists of from 65.3 wt% to 72.3 wt% silicone resin, from 6.5 wt% to 7.25 wt% silicone catalyst, from 7.22 wt% to 7.98 wt% ground cork, from 8.36 wt% to 9.24 wt% glass ecospheres, and the balance silicone solvent.

16. A surface according to claim 15, wherein said silicone solvent is present in an amount from 7.6 wt% to 8.4 wt%.

17. A surface according to claim 9, wherein said surface is an airframe surface.